

PATENT CLAIMS

9-15

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Trocac sleeve for endoscopic applications, comprising
an elongate part including at least one passage for insertion of an instrument
such as an endoscope, scissors or the like, and
- pivotable parts mobile on the distal side,

characterised in that the distal section is formed by several longitudinal sections
(11, 12, ...) articulated on the proximal section (2) of the trocar sleeve, and
that a mechanism is provided for pivoting the individual longitudinal sections (11, 12,
...) about an axis orthogonal on the longitudinal axis of the trocar sleeve.


2. Trocar sleeve according to Claim 1 or the introductory clause of Claim 1,
characterised in that said longitudinal sections (11, 12, ...) constituting the distal
section of the trocar sleeve are adapted to be tilted forward in such a way that they
form a tip which permits the piercing of the body wall (3) even without an additional
trocar mandrel.

3. Trocar sleeve according to Claim 1 or 2,
characterised in that upon insertion of the trocar sleeve (1) into a body cavity said
longitudinal sections (11, 12, ...) can be tilted outward in a direction toward the
proximal end.

4. Trocar sleeve according to Claim 1,
characterised in that said longitudinal sections (11, 12, ...) are adapted to bear
against the internal wall (3) of the body cavity into which the trocar sleeve is inserted.

5. Trocar sleeve according to any of the Claims 1 to 4,
characterised in that said longitudinal sections (11, 12, ...) are configured in the
manner of wings.

6. Trocar sleeve according to any of the Claims 1 to 5,
characterised in that the mechanism comprises spring elements acting upon the individual longitudinal sections to bias them in a direction towards the proximal end.
7. Trocar sleeve according to any of the Claims 1 to 6,
characterised in that a flange (4) is provided on the proximal end of the trocar sleeve (1), by which the trocar sleeve (1) bears against the outer wall of the body cavity (3).
8. Trocar sleeve according to Claim 7,
characterised in that said flange (4) is adjustable in a direction toward the longitudinal axis of the trocar (1).

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